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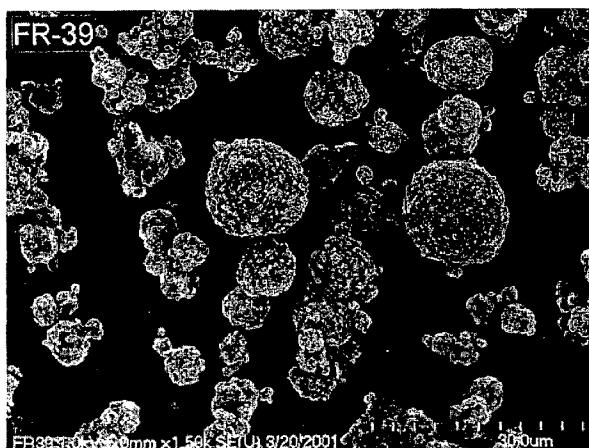
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[Suite sur la page suivante]

(54) Title: METHOD FOR SYNTHESIS OF CARBON-COATED REDOX MATERIALS WITH CONTROLLED SIZE

(54) Titre : PROCEDE DE SYNTHÈSE DE MATERIAUX REDOX ENROBES DE CARBONE A TAILLE CONTROLEE



Agglomérats de LiFePO₄ sphériques obtenus par atomisation
du mélange de précurseurs.

AGGLOMERATES OF LiFePO₄ BEADS OBTAINED BY
ATOMISATION OF MIXTURE OF PRECURSORS

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(57) Abstract: The invention concerns a method for the synthesis of compounds of formula C-Li_xM_{1-y}(XO₄)_n wherein: x, y and n represent numbers such that 0 ≤ x ≤ 2, 0 ≤ m ≤ 0.6 and 1 ≤ n ≤ 1.5; M is a transition metal or a mixture of transition metals of the first line of the periodic table; M' is an element with fixed valency selected among Mg²⁺, Ca²⁺, Al³⁺, Zn²⁺, or a combination of said elements; and X is selected among S, P and Si, by balancing in appropriate proportions a mixture or precursors, the synthesis being performed by reacting and balancing a mixture of precursors in the appropriate proportions of precursors, with a gaseous atmosphere, the method comprising at least a step of pyrolyzing a carbon-producing compound so as to obtain a compound whereof the electronic conductivity, measured on a sample of compacted powder, at a pressure of 3750 Kg.cm⁻², is higher than 10⁻⁸ S.cm⁻¹. The resulting materials are thus formed by the particles of the compound coated with a conductive carbon layer.

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